

## **ABSTRACT**

A bus interface circuit arrangement and method. In various embodiments, a bus interface circuit arrangement interfaces with a bus functioning in accordance with a bus protocol. The bus interface circuit arrangement includes a bus interface circuit having a port arranged to be coupled to the bus. The bus interface circuit provides physical and link layers of the bus protocol. A bus processing block, implemented with a programmable device, is coupled to the bus interface circuit and is configured to perform selected processing in response to selected bus messages. A filter circuit, also implemented with a programmable device, is coupled to the bus interface circuit and to the bus processing block. The filter circuit is configured to direct bus messages to a selected one of the bus interface circuit and the bus processing block responsive to a code in the bus message.